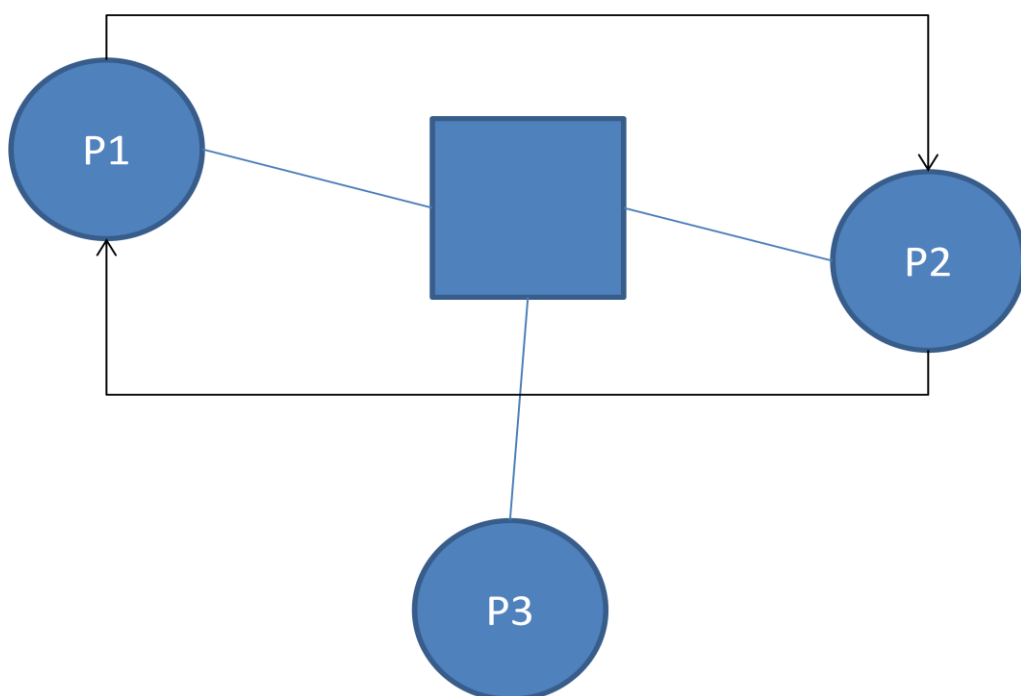


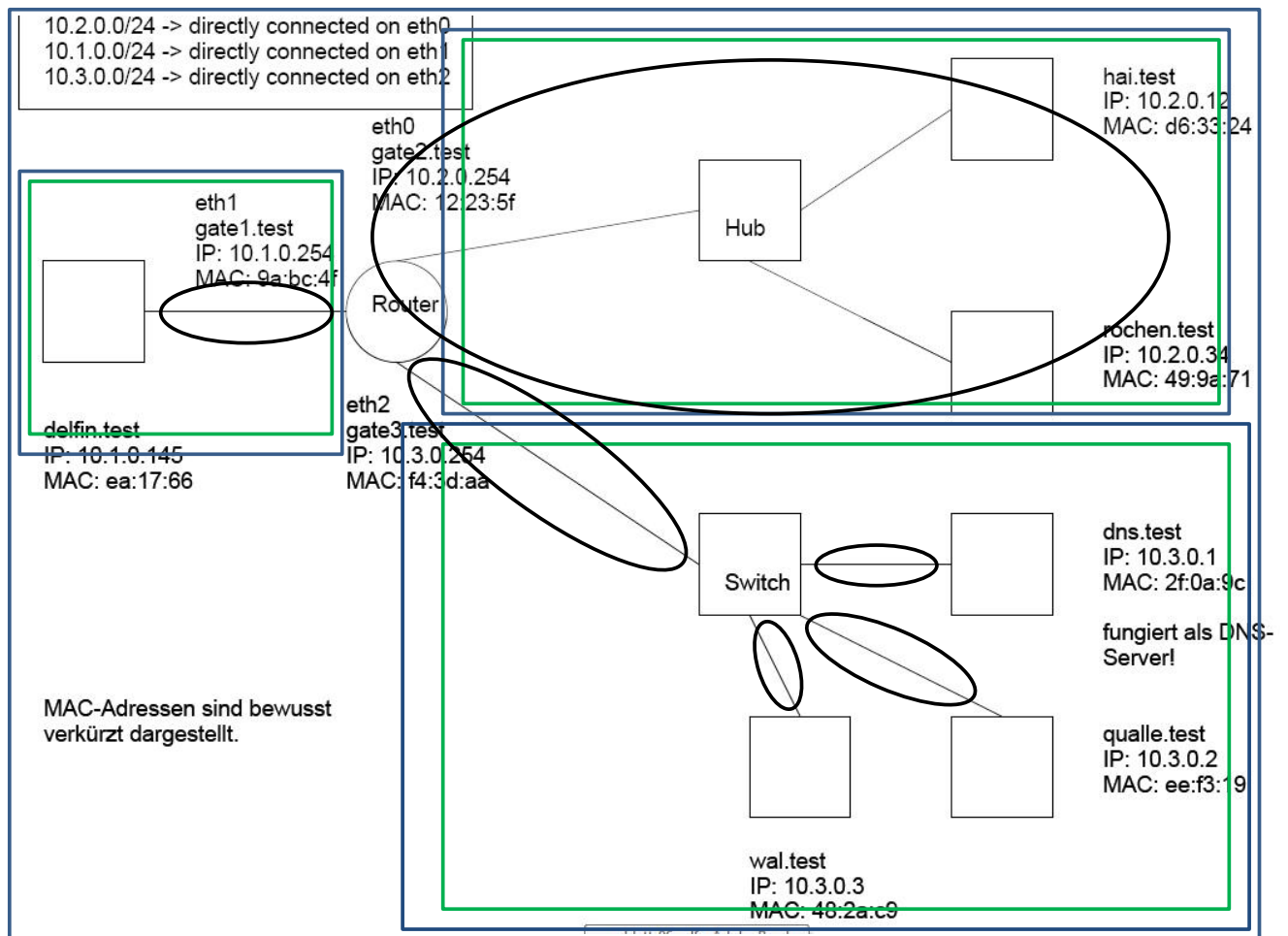
Aufgabe 1

In	SrcMAC	DestMAC	Out Ports	Fwd Table
P1	00:00:01	00:00:02	P2,P3,P4	:01 → P1
P2	:02	:03	P1,P3,P4	:01 → P1 :02 → P2
P1	:01	:02	P2	:01 → P1 :02 → P2
P4	:01	:04	P1,P2,P3	:01 → P4 :02 → P2
P3	:03	FF:FF:FF	P1,P2,P4	:01 → P4 :02 → P2 :03 → P3
P3	:03	:01	P4	:01 → P4 :02 → P2 :03 → P3
P4	:01	:03	P3	:01 → P4 :02 → P2 :03 → P3
P3	:05	:02	P2	:01 → P4 :02 → P2 :03 → P3 :05 → P3
P2	:02	:05	P3	:01 → P4 :02 → P2 :03 → P3 :05 → P3

Aufgabe 2



Aufgabe 3



Link	SrcMAC	DestMAC	Prot	SrcIP	DestIP	Payload
Qualle-Switch	Ee:f3:19	Ff:ff:ff	ARP			ARP Request: Who has IP 10.3.0.1? tell ea:f3:19
Switch-{wal dns gate3}	Ee:f3:19	Ff:ff:ff	ARP			"
Dns-Switch Switch-qualle	2f:0a:9c	Ee:f3:19	ARP			ARP Reply (IP 10.3.0.1 is at 2f:0a:9c)
Qualle-Switch Switch-dns	Ee:f3:19	2f:0a:0c	IP	10.3.0.2	10.3.0.1	DNS-Request Address of delfin.test according to A-Record
Dns-Switch	2f:0a:9c	Ff:ff:ff	ARP			ARP-Request: Who has 10.3.0.2 tell 2f:0a:9c
Switch-{qualle wal gate3}	2f:0a:9c	Ff:ff:ff	ARP			"
Qualle-Switch Switch-dns	Ee:f3:19	2f:0a:9c	ARP			ARP-Reply(IP 10.3.0.2 is at ee:f3:19)
Dns-Switch Switch-Quelle	2f:0a:9c	Ee:f3:19	IP	10.3.0.1	10.3.0.2	DNS-Reply: Address of delfin.test is at 10.3.0.145

Qualle-switch Switch- {wal dns gate3} gate3-Switch Switch-qualle	Ee:f3:19 F4:3d:aa	Ff:ff:ff Ff:ff:ff ee:f3:19 ee:f3:19	ARP			ARP-Request(Who has IP 10.3.0.145) tell ee:f3:19 ARP-Reply: (IP 10.3.0.145 is at ea:17:66
Qualle-switch Switch-gate3	Ee:f3:19	Ea:17:66	IP	10.3.0.2	10.1.0.145	Machen Rechnernetze Spaß?
Gate1-delfin Delfin-gate1	9a:bc:4f Ea:17:66	Ff:ff:ff 9a:bc:4f	ARP			ARPRequ: who has 10.1.0.145 tell 9a:bc:4f ARP Reply: IP 10.1.0.145 is at ea:17:66
Delfin-gate1	Ea:17:66	Ee:f3:19	IP	10.1.0.145	10.3.0.2	Na klar
Gate3-switch Switch- {dns qualle wal}	F4:3d:aa	Ff:ff:ff	ARP			ARP Request who has IP 10.3.0.2 tell f4:3d:aa
Qualle-Switch switch-gate3	Ee:f3:19	F4:3d:aa	ARP			ARP-Reply IP 10.3.0.2 is at ee:f3:19
Gate3-Switch Switch-Qualle	Ea:17:66	Ee:f3:19	IP	10.1.0.145	10.3.0.2	Na klar